SWALLOW.

A NEW ALMANACK

for the Year of our

LORD GOD

1690.

Being the second after Bissextile or Leap-year, and from the Worlds Creation, 5693.

Calculated properly for the famous University and Town of *Cambridge*, where the North-Pole is elevated 52 deg. 12 min. above the Horizon.

And may serve indifferently for any other place of this Kingdom.

Omnia fatce metit tempus.

CAMBRIDGE

Printed by *John Hayes* Printer to the University, 1690.

The vulgar Notes and moveable Feasts for this Year 1690. in both Accounts, *viz.*

Julian or *English.*			*Gregorian* or Forreign.	
19		The Golden Number	19	
☾		The Dominical Letter	A	
29		The Epact	19	
19		The Cycle of the Sun	19	
March	2	Shrove-sunday	Febr.	8
April	20	Easter-day	March	26
May	29	Ascension-day	May	4
June	8	Whitsunday	May	14
Novem.	30	Advent-sunday	Decem.	3

The Anatomy of Man's Body.

♈ *Aries* Head and Face ♎ *Libra* Reins and Loyns
♉ *Taurus* Neck & Throat ♏ *Scorpio* Secret members
♊ *Gemini* Arms and Shoul. ♐ *Sagitarius* the Thighs
♋ *Cancer* Breast & Stom. ♑ *Capricornus* the Knees
♌ *Leo* Heart and Back ♒ *Aquarius* the Legs
♍ *Virgo* Bowels and Belly ♓ *Pisces* the Feet.

A Table of the Terms with their Returns.

Hilary Term begins January 23, and ends February 12, and hath 4 returns, *viz.*	Octab. Hilar. Jan. 20 Quind. Hilar. Jan. 27 Craft. Purif. Febr. 3 Octab. Purif. Febr. 10
Easter Term begins May 7, ends June 2, and hath 5 returns, *viz.*	Quind. Pasch. May 5 Tres Pasch. May 12 Mens. Pasch. May 19 Quinq. Pasch. May 26 Craft. Ascen. May 30
Trinity Term begins June 20, and ends July 9, and hath 4 returns, *viz.*	Craft. Trin. June 16 Octab. Trin. June 23 Quind. Trin. June 30 Tres Trin. July 7
Michaelmas Term begins October 23, ends November 28, and hath 6 returns, *viz.*	Tres Mich. Octob. 20 Mens. Mich. Octob. 27 Craft. anim. Nov. 3 Craft. Mart. Nov. 12 Octab. Mart. Nov. 18 Quind. Mart. Nov. 25

Note that the Exchequer openeth 8 days before any Term begins, except the Term of Trinity, in which it openeth but 4 days before.

Note also that the bright Planet *Venus*, will be our glorious Morning Star from the beginning of the year, till the 6 day of *April*; and then making her Conjunction with the Sun, She becomes Occidental, and our glorious Evening Star to the end of the year.

January hath xxxi days.

First quarter the 8 day, 54 min. past 4 in the morn,
Full moon the 15 day, 39 min. past 3 in the morn.
Last quarter the 22 day, 9 min. past 6 in the morn.
New moon the 30 day, 18 min. past 8 in the morn.

1	a	Circumcision	21	55	Aquar.	1	
2	b	Octab Steph.	22	56		14	
3	c	Octab. John.	23	57		26	
4	d	Octab. Innoc.	24	59	Pisces	9	
5	e	Simeon	26	0		22	Cold rain or snow.
6	f	Epiphany	27	1	Aries	5	
7	g	Julian	28	2		19	
8	a	Erhardus	29	3	Taur.	3	
9	b	Sun in Aquar.	0 ♒	4		17	
10	c	Paul Erem.	1	6	Gem.	1	
11	d	Hyginus	2	7		16	
12	e	1 aft. Epiph.	3	8	Canc.	0	
13	f	Hilary Bish.	4	9		15	
14	g	Felix	5	10	Leo	0	
15	a	Maurice	6	11		15	Freezing winds clearing the Air.
16	b	Marcellus	7	12		29	
17	c	Anthony	8	13	Virg.	1	
18	d	Prisca	9	14		13	
19	e	2 aft. Epiph.	10	15		26	
20	f	Octab. Hilar.	11	16	Libra	9	
21	g	Agnes	12	17		21	
22	a	Vincent	13	18	Scorp.	3	
23	b	Term begins	14	19		15	
24	c	Timothy	15	19		27	
25	d	Conv. S. Paul	16	20	Sagit.	9	Now look for frost and snow.
26	e	3 after Epiph.	17	21		21	
27	f	Quind. Hilar.	18	22	Capr.	3	
28	g	Valerius	19	23		15	
29	a	Gaselinus	20	23	Aquar.	10	
30	b	K. Ch. 1. mar.	21	24		23	
31	c	Virgilius	22	25	Pisces	6	

February hath xxviii days.

First quarter the 6 day, 50 min. past 1 afternoon.
Full moon the 13 day, 40 min. past 8 in the morn.
Last quarter the 21 day, at 25 past 2 in the morn.
New moon the 28 day, 5 min. past 11 at night.

M.D.	W.D.	Festival days with terms.	☉ place d.	m.	Moons place.		Inclination of the Air.
1	d	Bridget fast	23	25	Pisces	19	
2	e	Purification	24	26	Aries	2	
3	f	Crast. Purif.	25	27		16	Moderate
4	g	Gilbert	26	27		29	winterly
5	a	Agatha	27	28	Taur.	13	weather may
6	b	Dorothy	28	28		27	continue till
7	c	Zachary	29	29	Gem.	11	about the
8	d	Sun in Pisces	0 ♓	29		25	Full moon.
9	e	4 after Epiph.	1	30	Canc.	10	
10	f	Octab. Purif.	2	30		25	
11	g	Euphrosina	3	30	Leo	9	
12	a	Term ends	4	31		23	
13	b	Agabus	5	31	Virgo	7	
14	c	Valentine	6	31		20	Now more
15	d	Faustine	7	32	Libr.	4	boysterous
16	e	Septuagesima	8	32		17	and wet wea-
17	f	Polycron	9	32		29	ther may be
18	g	Concordia	10	32	Scorp.	11	expected.
19	a	Sabine	11	32		23	
20	b	Mildred	12	32	Sagit.	5	
21	c	Esaias	13	32		17	
22	d	Cathedr. Pet.	14	32		29	
23	e	Sexagesima	15	32	Capr.	11	
24	f	S. Matthias	16	32		23	Snow and
25	g	Victor	17	32	Aquar.	6	pinching
26	a	Nestor	18	32		18	frosts.
27	b	Fortuna	19	32	Pisces	1	
28	c	Macar.	20	32		14	

March hath xxxi days.

First quarter the 7 day, 7 min. past 8 at night.
Full moon the 14 day, 15 min. past 10 at night.
Last quarter the 22 day, 47 min. past 9 at night.
New moon the 30 day, 9 min. past 10 before noon.

1	D	David Bish.	21	32	Pisces	28		
2	E	Shrove-Sund.	22	31	Aries	2		
3	F	Lucius	23	31		26		
4	G	Shrovetuesd.	24	31	Taur.	10		
5	a	Ash Wednesd.	25	30		24	Moist and	
6	b	Frederick	26	30	Gem.	8	boysterous	
7	c	Felicitas	27	29		22	weather.	
8	d	Cyprian	28	29	Canc.	7		
9	e	Quadragesim.	29	28		2		
10	f	Sun in Aries	0	♈ 28	Leo	5		
11	g	Cuthbert	1	27		18		
12	a	Ember week	2	27	Virgo	2		
13	b	Ernestus	3	26		16		
14	c	Eutychus	4	25		29	Cold and	
15	d	Longinus	5	25	Libra	12	Cloudy.	
16	e	2 sun. in Lent	6	24		25		
17	f	Gertrude	7	23	Scorp.	7		
18	g	Gabriel	8	22		19		
19	a	Joseph	9	21	Sagit.	1		
20	b	Rupert	10	20		13		
21	c	Benedict	11	19		25		
22	d	Paulinus	12	18	Capr.	7		
23	e	3 sun. in Lent	13	17		19	Storms and	
24	f	Mutrine	14	16	Aquar.	1	wind toward	
25	g	Lady day	15	15		13	the end.	
26	a	Taffilus	16	14		26		
27	b	Archibald	17	13	Pisc.	9		
28	c	Gideon	18	12		23		
29	d	Eustachius	19	11	Aries	6		
30	e	Midlent Sund.	20	9		21		
31	f	Baldina	21	8	Taur.	5		

April hath xxx days.

First quarter the 6 day, 3 min. past 2 in the morn.
Full moon the 13 day. at 1 after noon.
Last quarter the 21 day, 8 min. past 3 after noon.
New moon the 28 day, at 7 at night.

1	☌	Conv. M. M.	22	7	Tau.	20	
2	a	Mary Egypt	23	5	Gem.	4	
3	b	Christian	24	4		19	
4	c	Ambrose	25	2	Canc.	3	
5	d	Vincent	26	1		17	This month may begin more mild.
6	e	☽ sun. in Lent	26	59	Leo	1	
7	f	Celestine	27	58		15	
8	g	Dionysius	28	56		28	
9	a	Albinus	29	♍ 55	Virgo	12	
10	b	Sun in Taurus	0	53		25	
11	c	Leo Pap.	1	51	Libr.	8	
12	d	Julius	2	50		20	
13	e	Palm Sunday	3	48	Scorp.	3	
14	f	Tiburtius	4	46		15	
15	g	Olympia	5	44		27	Good seasonable weather.
16	a	Justinus	6	42	Sagit.	10	
17	b	Anicetus	7	40		21	
18	c	Good Friday	8	39	Capr.	3	
19	d	Timothy fast	9	37		15	
20	e	Easter day	10	35		27	
21	f	Emmannel	11	33	Aquar.	9	
22	g	Adelar	12	31		21	
23	a	S. George	13	29	Pisces	4	
24	b	Albertus	14	25		17	Variable showers toward the months end.
25	c	S. Mark	15	24	Aries	1	
26	d	Cletus	16	22		14	
27	e	Low Sunday	17	20		29	
28	f	Vitalis	18	18	Taur.	14	
29	g	Sibylla	19	16		29	
30	a	Q. M. 2. born.	20	13	Gem.	14	

May hath xxxi days.

First quarter the 5 day, at 9 in the morning.
Full moon the 13 day, 20 min. past 3 in the morning.
Last quarter the 21 day, 34 min. past 5 in the morn.
New moon the 28 day, 32 min. past 2 in the morn.

1	h	Phil. & Jacob	21	11	Gem.	29	
2	c	Athanasius	22	9	Cane.	13	
3	d	Invent. Cruc.	23	6		28	
4	e	2 after Easter	24	4	Leo	12	
5	f	Quind. Pasc.	25	2		25	The weather
6	g	Joh. port. L.	25	59	Virgo	9	is likely to
7	a	Term begins	26	57		22	continue sea-
8	b	Stanislaus	27	54	Libra	4	sonable.
9	c	Hiobe	28	52		17	
10	d	Panerat.	29	49		29	
11	e	3 after Easter	☌	11 47	Scorp.	12	
12	f	Tres Pasch.	1	44		24	
13	g	Servatius	2	41	Sagit.	6	
14	a	Fortuna	3	39		18	
15	b	Sophia	4	37	Capr.	0	The winds
16	c	Peregrin	5	34		12	rise and some
17	d	Jodocus	6	31		24	showers fol-
18	e	4 after Easter	7	29	Aquar.	6	low.
19	f	Mens. Pasch.	8	26		18	
20	g	Bernard	9	23	Pisces	0	
21	a	Julian Virg.	10	21		13	
22	b	Helena	11	18		25	
23	c	Desider.	12	15	Aries	19	
24	d	Esther	13	12		23	
25	e	Rogation sun.	14	10	Taur.	7	
26	f	Quinq. Pasch	15	7		22	Hail storms
27	g	Beda	16	4	Gem.	7	about this
28	a	Monica	17	1		22	time may
29	b	Ascensio da	17	58	Cane.	8	happen.
30	c	Craft. Ascen.	18	56		22	
31	d	Petronel	19	53	Leo	7	

June hath xxx days.

First quarter the 3 day, 31 min. past 6 at night.
Full moon the 11 day, 14 min. past 4 after noon.
Last quarter the 19 day, 44 min. past 5 after noon.
New moon the 26 day, 22 min. past 9 beforenoon.

1	☾	f	6 after Easter	20	50	Leo	22	
2	f	f	Term ends	21	47	Virg.	5	
3	g	g	Marcel	22	44		19	Warmer
4	a	a	Petrocius	23	41	Libra	1	weather now
5	b	b	Boniface	24	38		14	comes on.
6	c	c	Artemid.	25	36		27	
7	d	d	Paul Ep. fa.	26	33	Scorp.	9	
8	☾	e	Whit-sunday	27	30		21	
9	f	f	Warnim	28	27	Sagit.	3	
10	g	g	Demetrius	29	24		15	Seasonable
11	a	a	S. Barnabas	0	♋ 21		27	Thunder.
12	b	b	Blandine	1	18	Capr.	9	
13	c	c	Tytilius	2	15		21	
14	d	d	Valerius	3	12	Aquar.	3	
15	☾	e	Trinity Sund.	4	9		15	
16	f	f	Craft. Trin.	5	6		27	
17	g	g	Botolph	6	3	Pisces	9	
18	a	a	Gervasius	7	0		22	Fine clear
19	b	b	Regina	7	57	Aries	5	weather with
20	c	c	Term begins	8	55		18	wholesome
21	d	d	Alban.	9	52	Taur.	1	gales of wind
22	☾	e	1 after Trin.	10	48		16	
23	f	f	Octab. Trin.	11	46	Gem.	0	
24	g	g	S. John Bapt.	12	43		15	
25	a	a	Elogius	13	40	Cane.	1	
26	b	b	Jeremias	14	37		16	
27	c	c	Leo P. fast	15	34	Leo	1	Hasty
28	d	d	7 Sleepers	16	31		16	showers.
29	☾	e	S. Peter Apo.	17	28	Virgo	0	
30	f	f	Quind. Trin.	18	25		14	

July hath xxxi days.

First quarter the 3 day, 28 min. past 6 in the morn.
Full moon the 9 day, 46 min. past 9 before noon.
Last quarter the 19 day, 46 min. past 2 in the morn.
New moon the 25 day, 43 min. past 4 after noon.

1	g	Theobald	19	22	Virg.	28	
2	a	Visit. Mary	20	19	Libra	11	
3	b	Cosmetius	21	17		23	Fair and hot.
4	c	Mirieus	22	14	Scorp.	6	
5	d	Anselm	23	11		18	
6	e	3 after Trin.	24	8	Sagit.	0	
7	f	Ires Trin.	25	5		12	
8	g	Thilian	26	2		24	
9	a	Term ends	26	59	Capr.	6	Windy and
10	b	7 Brethren	27	57		18	var able.
11	c	Pius	28	54	Aquar.	0	
12	d	Henricus	29	51		12	
13	e	4 after Trin.	0	48		24	
14	f	Bonavent	1	46	Pisces	6	
15	g	Swithin	2	43		19	
16	a	Hilarine	3	40	Aries	1	
17	b	Alexius	4	37		14	Cloudy and
18	c	Maternus	5	35		23	probably
19	d	Dog days be.	6	32	Taur.	11	some thun-
20	e	5 after Trin.	7	29		25	der.
21	f	Daniel	8	27	Gem.	10	
22	g	Mary Mag.	9	23		24	
23	a	Apolline b.	10	21	Canc.	9	
24	b	Christen. fast	11	19		24	
25	c	S. James Ap.	12	16	Leo	9	
26	d	Anna	13	14		24	
27	e	6 after Trin.	14	11	Virg.	9	High winds
28	f	Panthal	15	9		23	with rain.
29	g	Beatrice	16	6	Libra	6	
30	a	Abdon	17	4		19	
31	b	German	18	1	Scorp.	2	

Auguſt hath xxxi days.

First quarter the 1 day, 19 min. paſt 9 at night.
Full moon the 9 day, 46 min. paſt 11 at night.
Laſt quarter the 17 day, 33 min. paſt 9 before noon.
New moon the 24 day, 22 min. paſt 1 in the morn.
First quarter the 31 day, 24 min. paſt 2 after noon.

1	c	*Lammas day*	18	59	Scorp.	14		
2	d	Stephanus	19	56		27	Now look for deſirable harveſt weather.	
3	e	7 after Trin.	20	54	Sagit.	8		
4	f	Dominic	21	52		20		
5	g	Oſwald	22	49	Capr.	2		
6	a	Tranſ. Chriſti	23	47		14		
7	b	Donatus	24	45		25		
8	c	Ladiſlaus	25	43	Aquar.	8		
9	d	Romanus	26	40		21		
10	e	8 after Trin.	27	38	Piſces	3		
11	f	Titus	28	36		15	Flying ſhowers.	
12	g	Clare Virg.	29	34		28		
13	a	Sun in Virgo	0	32	Aries	11		
14	b	Bertram	1	30		25		
15	c	Aſſumpt. Mary	2	28	Taur.	8		
16	d	Rochus	3	26		22		
17	e	9 after Trin.	4	24	Gem.	6		
18	f	Helena	5	22		20		
19	g	Hebaldus	6	20	Canc.	4	Thunder and Hail.	
20	a	Bernard	7	18		19		
21	b	Athanaſius	8	16	Leo	3		
22	c	Symphor.	9	14		18		
23	d	Zacheus faſt	10	12	Virgo	2		
24	e	S. Bartholom.	11	11		17		
25	f	Lewis K.	12	9	Libra	1		
26	g	Ireneus	13	7		14	Briſk and cool winds.	
27	a	Dog days end	14	5		27		
28	b	Auguſtine	15	4	Scorp.	10		
29	c	Decol. J. Bapt.	16	2		23		
30	d	Felix	17	1	Sagit.	5		
31	e	11 after Trin.	17	59		17		

September hath xxx days.

Full moon the 8 day, 43 min. past 1 after noon.
Last quarter the 15 day, 9 min. past 3 after noon.
New moon the 22 day, 33 min. after noon.
First quarter the 30 day, 12 min. past 9 before noon.

1	f	Giles Ab.	18	58	Sagit.	20		
2	g	Rachel	19	56	Capr.	10		Seasonable weather begins the month and holds for several days.
3	a	Euphem.	20	55		21		
4	b	Theodosius	21	53	Aquar.	4		
5	c	Zachary	22	52		16		
6	d	Magnus	23	51		29		
7	e	12 after Trin.	24	49	Pisces	11		
8	f	Nat. of Mary	25	48		24		
9	g	Gorgon	26	47	Aries	8		
10	a	Hosthenes	27	46		21		
11	b	Theobald	28	44	Taur.	5		
12	c	Tobias	29	43		18		
13	d	Sun in Libra	0	42	Gem.	2		
14	e	13 after Trin.	1	41		16		Now and then a gentle shower of rain.
15	f	Nicomed.	2	40	Canc.	1		
16	g	Euphemus	3	39		14		
17	a	Ember week	4	38		29		
18	b	Ferriolus	5	37	Leo	13		
19	c	Januarius	6	36		27		
20	d	Fausta fast	7	36	Virgo	11		
21	e	S. Matthew	8	35		25		
22	f	Maurice	9	34	Libra	9		
23	g	Eloxes	10	33		22		About the new moon the air grows rougher. and the mornings and evenings cold.
24	a	Rupert	11	33	Scorp.	5		
25	b	Cleophas	12	32		18		
26	c	Cyprian	13	31	Sagit.	0		
27	d	Judith	14	31		13		
28	e	15 after Trin.	15	30		25		
29	f	S. Mich. Arc.	16	30	Capr.	7		
30	g	Jerome	17	29		18		

October hath xxxi days.

Full moon the 8 day, 27 min. past 2 in the morn.
Last quarter the 14 day, 36 min. past 10 at night.
New moon the 22 day, 11 min. past 1 in the morn.
First quarter the 30 day, 20 min. past 3 in the morn.

1	a	Remigius	18	29	Aquar.	0	
2	b	Leodegar	19	29		12	Turbulent and wet weather.
3	c	Simplicius	20	28		24	
4	d	Francisc.	21	28	Pisces	7	
5	e	16 after Trin.	22	28		20	
6	f	Aurelia	23	27	Aries	3	
7	g	Spes	24	27		16	
8	a	Pelagia	25	27	Taur.	0	
9	b	Dionysius	26	27		14	
10	c	Gideon	27	27		28	
11	d	Burchard	28	27	Gem.	13	More calm and temperate.
12	e	17 after Trin.	29	27		27	
13	f	Sun in Scorpio	0	m 27	Canc	12	
14	g	Calixtus	1	27		26	
15	a	Hedwig.	2	27	Leo	10	
16	b	Gallus	3	27		24	
17	c	Florent.	4	27	Virgo	7	
18	d	S. Luke Evan	5	27		21	
19	e	18 after Trin.	6	27	Libra	4	Windy and dry.
20	f	Tres Mich.	7	27		18	
21	g	Ursula	8	28	Scorp.	1	
22	a	Cordula	9	28		13	
23	b	Term begins	10	28		26	
24	c	Salome	11	29	Sagit.	8	
25	d	Crispine	12	29		22	
26	e	19 after Trin.	13	29	Capr.	3	
27	f	Mens. Mich.	14	30		14	Toward the end frost.
28	g	S. Sim. & Jud.	15	30		26	
29	a	Narcissus	16	31	Aquar.	8	
30	b	Absolon	17	31		20	
31	c	Wolfgang fa.	18	32	Pisces	2	

November hath xxx days.

Full moon the 6 day, 26 min. past noon.
Last quarter the 13 day, 53 min. past 4 in the morn.
New moon the 20 day, 35 min. past 7 at night.
First quarter the 22 day, 52 min past 9 at night.

1	d	All Saints	19	32	Pisces	15	
2	E	20 after Trin.	20	33		27	
3	f	Crast Anim.	21	34	Aries	11	Windy wea-
4	g	Modestius	22	34		24	ther but dry.
5	a	Powder Plot	23	35	Taur.	8	
6	b	Leonard	24	36		23	
7	c	Willibald	25	37	Gem.	8	
8	d	Claudius	26	37		22	
9	E	21 after Trin.	27	38	Canc.	7	
10	f	Triphon	28	39		22	
11	g	Martine	29	40	Leo	6	
12	a	Sun in Sagit.	0 ♐	41		20	Cold with
13	b	Eugenia	1	42	Virgo	4	frost and
14	c	K.W. 3. born	2	43		18	snow.
15	d	Leopold	3	43	Libra	1	
16	E	22 after Trin.	4	44		14	
17	f	Hugo	5	45		27	
18	g	Octab. Mart.	6	46	Scorp.	10	
19	a	Elizabeth	7	47		22	
20	b	Amos	8	48	Sagit.	5	
21	c	Oblat. Mary	9	49		17	
22	d	Cecilia	10	51		29	
23	E	23 after Trin.	11	52	Capr.	11	Cloudy dark
24	f	Chrysogon	12	53		23	weather with
25	g	Quind. Mart.	13	54	Aquar.	5	cold frosts
26	a	Conradus	14	55		16	and snow.
27	b	Guntherus	15	56		28	
28	c	Term ends	16	57	Pisces	10	
29	d	Saturnine f.	17	58		23	
30	E	S. Andrew	18	59	Aries	6	Adv. Sunday

December hath xxxi days.

Full moon the 6 day, 12 min. past 1 in the morning.
Last quarter the 12 day, 26 min. past 4 after noon.
New moon the 20 day, 43 min. past 2 after noon.
First quarter the 28 day, 6 min. past 5 at night.

1	f	Longinus	20	1	Aries	19		
2	g	Candidus	21	2	Taur.	2		Turbulent winds clearing the Air.
3	a	Caſſian	22	3		16		
4	b	Barbara	23	4	Gem.	1		
5	c	Sabine	24	6		16		
6	d	Nicholas	25	7	Canc.	1		
7	e	2 ſun. in Adv	26	8		16		
8	f	Concep. Mary	27	9	Leo	1		
9	g	Joachim	28	11		16		Froſt and ſnow.
10	a	Miltiades	29	12	Virgo.	0		
11	b	Sun in Capr.	0	13		14		
12	c	Valerius	1	14		28		
13	d	Lucia	2	16	Libra	11		
14	e	3 ſun. in Adv.	3	17		24		
15	f	Abyaham	4	18	Scorp.	7		Good ſeaſonable weather.
16	g	O Sapientia	5	20		19		
17	a	Ember week	6	21	Sagit.	2		
18	b	Thiſtoph.	7	22		14		
19	c	Loth.	8	23		26		
20	d	Amon faſt	9	25	Capr.	8		
21	e	S. Thomas	10	26		20		
22	f	Theodoſis	11	27	Aquar.	1		The new Moon may bring ſharp and nipping froſts.
23	g	Victor	12	28		13		
24	a	Ad. & Eb. faſt	13	29		25		
25	b	Chriſtmas day	14	30	Piſces	7		
26	c	S. Stephen	15	32		19		
27	d	S. John Evan.	16	33	Aries	2		
28	e	H. Innocents	17	34		14		
29	f	Jonathan	18	35		27		
30	g	David	19	37	Taur.	11		
31	a	Sylveſter	20	38		25		

A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to begin *Jan.* 1.) whereon every K. and Q. of *Eng.* since the Conq. began their reign.			The number of Years, Months, & Days, that every K. and Q. reigned 28 da. to a mon.						The num. of y. expired in this y. since they began to reign: as also since they ended.	
K. W. Conq.	1066	Octob. 14	20	y	11	m	22	d	624	
W. Rufus	1087	Sept. 9	13	y	11	m	18	d	603	K. W. Conq.
Henry 1	1100	Auguſt 1	35	y	4	m	11	d	590	W. Rufus
Stephen	1135	Decem. 2	18	y	11	m	18	d	555	Henry 1
Henry 2	1154	Octob. 25	34	y	9	m	2	d	536	Stephen
Richard 1	1189	July 6	9	y	9	m	0	d	501	Henry 2
John	1199	April 6	17	y	7	m	0	d	491	Richard 1
Henry 3	1216	Octob. 19	56	y	1	m	0	d	474	John
Edward 1	1272	Nov. 16	34	y	8	m	6	d	418	Henry 3
Edward 2	1307	July 7	19	y	7	m	5	d	383	Edward 1
Edward 3	1327	Jan. 25	50	y	5	m	7	d	363	Edward 2
Richard 2	1377	June 21	22	y	3	m	14	d	313	Edward 3
Henry 4	1399	Sept. 29	13	y	6	m	3	d	291	Richard 2
Henry 5	1413	March 20	9	y	5	m	24	d	277	Henry 4
Henry 6	1422	Aug. 31	38	y	6	m	16	d	268	Henry 5
Edward 4	1461	March 4	22	y	1	m	8	d	229	Henry 6
Edward 5	1483	April 9	0	y	2	m	18	d	207	Edward 4
Richard 3	1483	June 22	2	y	2	m	5	d	207	Edward 5
Henry 7	1485	Aug. 22	23	y	10	m	24	d	205	Richard 3
Henry 8	1509	April 22	37	y	10	m	2	d	181	Henry 7
Edward 6	1547	Jan. 28	6	y	5	m	19	d	143	Henry 8
Q. Mary	1553	July 6	5	y	4	m	22	d	137	Edward 6
Q. Elizab.	1558	Nov. 17	44	y	4	m	15	d	132	Q. Mary
James 1	1603	March 24	22	y	0	m	3	d	87	Q. Elizab.
Charles 1	1625	March 27	22	y	10	m	3	d	65	James 1
Charles 2	1648	Jan. 30	36	y	0	m	7	d	41	Charles 1
James 2	1685	Febr. 6	4	y	0	m	0	d	5	Charles 2
William, & Mary }	1689	Febr. 13	Whom God grant long to Reign.						1	James 2

The uſe of the Table in Example.

King *Henry* 8 began his Reign in the year of *Chriſt* 1509, *April* 22 He Reigned 37 years, 10 months, and 2 days. It is ſince he began his Reign 181 years compleat the 22 of *April* this year 1690. Now to know the time ſince the end of his Reign, before his name ſtanding on the right hand, you ſhall there find 143 years ſince he died, *Jan.* 28. And ſo of the reſt.

Swallow

SWALLOW.

The latter part of this

ALMANACK

for the Year of our

LORD GOD

1690.

Being the second after Biſſextile or Leap-year, and from the Conqueſt of *England* by *William* Duke of *Normandy* 624 years.

Wherein is contained an account of the Eclipſes, the time of the Sun's entrance into the four Cardinal Signs, An account of the order of the Spheres, &c. Likewiſe Tables of Weights and Meaſures, A Table of Timber meaſure, with Rules for meaſuring Boards and Timber; and Tables for Purchaſing explained, with other profitable and delightfull things.

Poma dat Autumnus: formoſa eſt meſſibus Aſtas: Ver præbet flores: Igne levatur Hyems.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the Univerſity, 1690.

A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to begin *Jan.* 1.) whereon every K. and Q. of *Eng.* since the Conq. began their reign.			The number of Years, Months, & Days, that every K. and Q. reigned 28 da. to a mon.						The num. of y. expired in this y. since they began to reign: as also since they ended.		
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Edward 2	1307	July 7	19	y	7	m	5	d	383	Edward	1
Edward 3	1327	Jan. 25	50	y	5	m	7	d	363	Edward	2
Richard 2	1377	June 21	22	y	3	m	14	d	313	Edward	3
Henry 4	1399	Sept. 29	13	y	6	m	3	d	291	Richard	2
Henry 5	1413	March 20	9	y	5	m	24	d	277	Henry	4
Henry 6	1422	Aug. 31	38	y	6	m	16	d	266	Henry	5
Edward 4	1461	March 4	22	y	1	m	8	d	229	Henry	6
Edward 5	1483	April 9	0	y	2	m	18	d	207	Edward	4
Richard 3	1483	June 22	2	y	2	m	5	d	207	Edward	5
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Henry 8	1509	April 22	37	y	10	m	2	d	181	Henry	7
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CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1690.

Of the Eclipſes this Year.

THIS Year there will be four Eclipſes, two of the Sun and two of the Moon; of which there will be but one (and that of the Moon) viſible to us in *England*, and they happen as followeth:

The firſt is an Eclipſe of the Sun, and will be on the 8 day of *February* at 11 at night, but inviſible.

The ſecond is an Eclipſe of the Moon, which happens on the 14 day of *March*, at 10 of the Clock at night, and will be viſible.

The third will be of the Sun, and happens on the 24 day of *Auguſt* at 1 in the morning, but not ſeen.

The fourth will be of the Moon, on the 8 day of *September* at 2 in the afternoon, but it is inviſible.

The Suns entrance into the four Cardinal Signs this Year.

HE enters ♈, *March* the 10th day, 12 minutes paſt 6 in the morning, and then begins our Spring Quarter.

He enters ♋, *June* the 11th day, 42 minutes paſt 7 in the morning, and then begins our Summer Quarter.

He enters ♎, *September* the 12th day, 10 minutes paſt 11 at night, and then begins our Autumn.

He enters ♑, *December* the 11th day, 22 minutes paſt 4 afternoon, and then begins our Winter Quarter.

Of

Of the true delineation of the Heavens.

THE motion of the Heavens, and of the Cœleſtial bodies are ſalved two manner of waies, that is either by the Earth's ſtanding ſtill, and the motion of the Sun, or by the Sun's ſtanding ſtill, and the motion of the Earth. *Ptolemy*, and *Tycho Brahe* imbraced the firſt way, as moſt agreeable to truth: But *Copernicus*, being induced thereto by many obſervations, held the latter, and that the Sun is in the Center of the Univerſe, and there reſts; moving only about its own Axis, which opinion will appear to be moſt conſentaneous to reaſon, when we have conſidered the poſture of the Spheres, and the ſeveral Phœnomena's.

For the ſetting forth of which I think it moſt convenient to begin with the order of the ſeveral Spheers, and to ſhew their dimenſions and how they encompaſs one another.

Firſt we will begin with the deſcription of the firſt Heaven, which is all that ſpace in which all the Planets perform their motions, the Orb or Sphere of *Saturn* being the higheſt of them, and therefore the utmoſt bound of the firſt Heaven, his Sphere comprehending all the reſt: And all the ſpace comprehended between his Orbite, and the Sphere of the Fixed Stars, is called the ſecond Heaven, the greatneſs of which ſhall be ſhewed, when we come to treat thereof. The third Heaven, which is the Seat, of the Bleſſed is beyond the bounds

of the ſecond Heaven, and is inviſible, the other two are viſible, being within ken of our mortal eyes.

In the Center of the firſt Heaven, and ſo conſequently in the Center of the Univerſe, is placed the great Luminary the Sun, ſending forth his raies as far as the utmoſt bounds of the firſt Heaven, and ſo inlightning the whole Planetary Syſteme.

The firſt above the Sun is the Sphere of *Mercury*, whoſe Semidiameter is 3573 of ſuch parts of which the Semidiameter of the Sphere of the Earth is 10000, his leaſt excentricity is 948 of ſuch parts.

The ſecond Sphere which is next above this, is the Sphere of Venus, whoſe Semidiameter is 7193 of the ſame parts, her leaſt excentricity is 145 ſuch parts.

The third Sphere which doth next encompaſs the former, is the Sphere of the Earth, whoſe Semidiameter is 10000 parts, it's excentricity is 350 of thoſe parts, and it's Aphelion is now in about 8 degrees of *Cancer*.

Next above the Sphere of the Earth, is the Sphere of *Mars*, whoſe Semidiameter is 15183 ſuch parts as before, his leaſt excentricity is 1472 of thoſe parts, and his Aphelion, that is his greateſt diſtance from the Sun is now in about 28 degrees of *Leo*.

The fifth Sphere, being the Sphere of *Jupiter*, is next above the former, it's Semidiamiter is 53995

of

of ſuch parts as the former were of, and it's leaſt excentricity is 2472 of thoſe parts.

The next and higheſt is the Sphere of *Saturn*, whoſe Semidiameter is 99304 of the ſame parts, and it's excentricity 5660 of thoſe parts.

The Sphere or Orbite of the Moon is appendant to the Earth, alwaies reſpecting that for it's Center; it's Semidiameter is 400 of ſuch parts as before were mentioned, it's greateſt excentricity in the *Syzygiis* is 34 of thoſe parts.

Laſtly, the Sphere of the Fixed Stars is at leaſt 68754937 that is almoſt ſeventy Millions of the ſame parts, which is the fartheſt limits or bounds of the ſecond Heaven, the vaſtneſs of which ſhall be declared in it's proper place.

The next thing to be conſidered, or rather admir'd, is the *Symmetry*, and apt connexion of the Spheres amongſt themſelves: For althô they have divers Centers, yet they ſeem as if they had all but one Center, becauſe their excentricities bearing ſo ſmall a proportion to the magnitude of their Spheres, ſeem nothing; from which it is manifeſt, that the Great and Omnipotent Architect, would not only inſinuate into the minds of Men an inſtance of his Eternal wiſdome in making this goodly Frame; but alſo his infinite power, conſidering the vaſtneſs thereof.

Another thing to be admir'd is the ordinate diſpoſition of the Spheres: For beſides that every Sphere doth encompaſs the Sun, reſpecting that for

their Center, the greater alwaies follows, and doth encompaſs the leſs; for in the Center of the Sphere of *Mercury* is the Sun, then is the Sphere of *Venus*, then the Sphere of the *Earth*, then the Sphere of *Mars*, then the Sphere of *Jupiter*, then the Sphere of *Saturn*, from whence it appears that the Cœleſtial Spheres are ſo ordered, that they cannot be any waies inverted, but violence will be done to the excellent form of the whole Heaven, as *Tycho Brahe* doth in his Syſteme.

Thus much for the Spheres in general, we will now ſee what can be ſaid concerning them in particular.

And firſt we will begin at their Center, which is the Seat of that glorious body the Sun; neither is it without reaſon that this bright Globe ſhould be placed in the Center, if we doe but conſider the magnitude, and matter thereof; as for its magnitude, it is more than thought to be above 4 hundred times greater than the Earth; the matter thereof is thought to be a kind of fire, ſeeing it affords both light and heat to all, and ſo it is placed, in the Center of the Spheres, that all the Syſteme of the firſt Heaven may be illuminated thereby; and like a King in his Throne he is there placed, that ſo he may more eaſily view and govern all about him, and that nothing may be hid from light and heat, which is neceſſary both to animate and inaminate ſubſtances, for without his enlivening vertue, experience ſhews, that the Earth would produce nothing, and the generation of ſeveral animals would ceaſe.

The next thing to be considered is the Spheres and bodies of *Mercury* and *Venus*, which our great and Omnipotent Master-Builder hath placed next the Sun, and that both for the glorious Sun's sake, and the Earth's sake; for if we respect the motions of these two Planets, we shall find them alwaies near the Sun, and tending upon him like Guards to a King, sometimes going before him, and sometimes following him; but what their office is we shall now declare.

It is certain that the Sun is the hottest of all the bodies of the first Heaven, and that as the Moon hath the Government of the Waters, so hath the Sun of the Fire; for his body is nothing else but Fire, or as certain *Philosophers* termed it a glowing Mass.

Now the Sun being of so vast a magnitude, and heat, would certainly burn the Earth, unless his immoderate heat was by some means allayed; and seeing there is nothing in the way to allay this great heat but the Air and the Water; it hath pleased God of his infinite wisdome, to place these two Planets, so near this Globe of Fire, the one of which is of an Airy nature, the other partakes both of Cold and Moistness, that so his intense heat may be moderated and rendred wholsome to our Earthy Globe, and to us Mortals that dwel there; as in the little world, the body of Man, unless the Heart which represents the Sun were sometimes refreshed by the Pericardium and refocillation of the Lights which are next to it, the whole body would, as it

were, wither and languiſh away by the exceſſive heat of the Heart.

The next is the Sphere of the Earth, which poſſeſſeth the middle place between the inferior and ſuperior Planets, which is indeed the fitteſt place for our Earthy Globe to receive their influences; for if it had been ſet in the Center of the Spheres, it would have been the loweſt of all the Planets, and ſo would have been too far from the third Heaven, which is the Throne of the Divine Majeſty; and if the Sphere of *Saturn* had been it's Orbite, then it would have been too far removed from the Sun, and the neighbouring Planets; but the Divine Wiſdome who created the Earth chiefly for Man, and gave it him for his habitation, had reſpect unto him in placing it in ſo convenient a place, for the reception of the benefits of the Cœleſtial bodies.

The motion of the Earth is two fold, Diurnal about it's own Axis, and Annual in the Ecliptic; by its Diurnal motion, God doth cauſe Man to be partaker, not only of the light and heat of the Sun, but alſo of his enlivening virtue, from whence we may ſee how the Almighty doth as it were carry this Earthy Ball in his Arms, turning it to the Sun as to a warm Fire, that we his Creatures may enjoy it's Light and Heat, and other Commodities: And as it moves through the Ecliptic in a Year, we are carried as it were in a Triumphal-Chariot, that ſo in the ſame ſpace of time we may

view

view with pleaſure, his wonderfull works, and celebrate his praiſe.

The next to be ſpoken of is the Sphere of the Moon, which is as it were an Epicycle about the body of the Earth, reſpecting that alwaies for it's Center; and as *Mercury* and *Venus* do alwaies accompany the *Sun*, ſo doth the Moon alwaies accompany the *Earth*; her greateſt diſtance from it is ſomething above 64 Semidiameters of the *Earth*, and it is above 45 times leſs than it; and the Moon being thus joyned as it were to the *Earth*, becomes another *Sun* to it, for the Moon doth that to the *Earth* in the night, which the *Sun* doth by day, but in a much more imperfect manner. And as the Moon is, as it were another *Sun* to the *Earth*, ſo it is to the *Sun*, as it were, another *Earth*; for the half, and ſomething more of both their bodies is alwaies enlightned by the *Sun*, the remaining parts at the ſame time being in darkneſs, only there is this difference between them, *viz.* The *Earth* becauſe of its motion about its Axis, is every day enlightned wholly by the *Sun* (at leaſt in thoſe Regions which enjoy the Diurnal light thereof) but the Moon only in the ſpace of 29 days and an half, becauſe all her ſurface is not turned to the *Sun*, in a leſs time.

Next follow the Spheres of *Mars*, *Jupiter*, and *Saturn*, which Planets are placed as it were in *Æquilibrio* to the three inferiors, *Sol*, *Mercury*, and *Venus*; for *Saturn* in the higheſt Sphere being very

very cold, is oppoſed to the Sun, for the moderating of that great heat which nature hath indued him with; next is *Jupiter*, by nature temperate, which is to moderate the great intemperatneſs of *Mercury*; then follows *Mars*, who is next the Earth, and by nature hot and dry, which is moderated by *Venus*, who is cold and moiſt: From whence it follows, that the firſt Heaven is made not only in number and meaſure, but alſo in weight.

And it is to be noted that all the Planets do ſpend their force upon the *Earth*, which is only ſubject to their effects, and this for the ſake of Man its inhabitant; for we find no alteration among the Planets themſelves, but whatſoever they effect by their mutual Aſpects, falls upon the *Earth*; for when the *Superiors* behold the Inferiors, or on the contrary, as *Saturn* the *Sun*, or the *Sun Saturn*; *Jupiter*, *Mercury* &c. becauſe their natures are ſo contrary, therefore do they ſo forceably work upon the *Earth*, and move the Air, ſo as if the Gates of Heaven were open to the producing of Wind, Hail, Snow, *&c.* from whence theſe viciſſitudes are called *Apertio Portarum, aut Apertiones magnarum Valvarum.*

Next we ſhall aſcend to the ſecond Heaven, which is bounded by the *Sphere* of *Saturn*, and the *Sphere* of the Fixed *Stars*; but to the *Sphere* of the Fixed *Stars* from the Center of the Univerſe is 68754937 ſuch parts of which the Semidiameter of the *Sphere* of

of the *Earth* is 10000, and the distance of the *Sphere* of *Saturn* from the same Center, and of the same parts is 99304, the difference of which is 68655633, which is the distance between the *Sphere* of *Saturn*, and the Fixed *Stars*; the immense vastness of which is so great, that the *Semidiameter* of the first Heaven, which is the distance of the *Sphere* of *Saturn* from the Center of the Universe, being the place of the *Sun*, is not above the 12th part of one degree of the greatest Circle of the second Heaven; a degree therefore being divided into 12 parts, and a Circle described at the distance of one of them, you will have the Circumference of the first Heaven in a due proportion to the second: Or if the *Semidiameter* of the second be taken to be 4 of our common feet; the Circumference of the first Heaven would not be much greater then this, O, and so proportionably less or greater, according as the *Semidiameter* of the second Heaven is taken less or greater; from whence we may see and admire the Vastness of the second Heaven, for as the *Sphere* of *Saturn*, which includeth the first Heaven, is such, that the *Earth* being compared to it, is scarce a point; so the *Sphere* of the Fixed *Stars*, which doth encompass the second Heaven is of such a vast magnitude, that in comparison thereof the whole *Sphere* of the *Earth* is but a point, and the space between the *Sphere* of *Saturn*, and that of the Fixed *Stars*, is above six hundred times greater then the *Semidiameter* of the

the firſt Heaven, that is the diſtance of the *Sphere* of *Saturn* from the Center of the world, ſo Vaſt is the extenſion of the ſecond Heaven; and altho the greatneſs thereof cannot but be much admired, yet it is not greater then reaſon and proportion requires, which will appear if we conſider that it is made proportional to the Luminaries which are placed in the higheſt place of the Firmament, and this not without great benefit to both the viſible Heavens; for the ſecond Heaven being contracted or made leſs, the light thereof, would ſpoyl the light of the firſt, or being too far extended, its light would not be ſufficient to illuminate the extreme parts thereof, ſeeing the lights of the ſecond Heaven are the Fixed *Stars*, whoſe illumination doth terminate at the *Sphere* of *Saturn*, but the light of the firſt Heaven is the *Sun*, whoſe light illuminating all the Planets, terminates there alſo: Nothing now remains but that we ſhould for ever praiſe and admire our infinitly wiſe Creator, who in ſuch abſolute perfection hath made the goodly frame of this viſible World.

A plain and easie Table shewing the true Interest due upon any Sum of Money from five Shillings to an Hundred Pounds, for a Year or under, after the rate of Six Pounds in the Hundred.

		1 month.			3 months			6 months			9 months			A Year.		
		sh.	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*	*sh.*	*p.*	*q.*
Shil.	5	0	0	1	0	0	3	0	1	3	0	1	2	0	3	2
	10	0	0	2	0	1	3	0	3	2	0	5	0	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	2	0	10	2
Pounds.	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	3	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	6	0	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
	7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
		po.	*sh.*	*p.*	*po.*	*sh.*	*p.*	*po.*	*sh.*	*p.*	*po.*	*sh.*	*p*	*po*	*sh.*	*p.*
Tens of Pounds.	10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
	20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
	60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
	80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Find the Principal in the first Column, and in the other you have the Interest due for One, Three, Six, Nine, or Twelve months.

Of

Of *Troy* Weight.

24 Grains	make	1 Peny w.
20 Peny weig.	make	1 Ounce.
12 Ounces	make	1 pou. *Troy*

Apothecaries Weight.

20 Grains	make	1 Scruple.
3 Scruples	make	1 Dram.
8 Drams	make	1 Ounce.
12 Ounces	make	1 Pound.

Of *Averdupois* Weight, a Pound whereof is equal to 14 Ounces, 12 peny weight *Troy*; by which Weight is weighed any thing which beareth the name of Garbel in this kind of weight

16 Drams	make	an Ounce.
16 Ounces	make	a Pound.
28 Pound	make	1 Quarter.
4 Quarters	make	1 H. or 112
20 Hundreds	make	1 Tun.

Of Liquid Measure.

2 Pints	make	1 Quart.
2 Quarts	make	1 Pottle.
2 Pottles	make	1 Gallon
8 Gallons	make	1 Firkin of Ale, Sope, Herrings.
9 Gallons	make	1 Firkin of Beer.
10 Gall. ½	make	1 Firkin of Salmon or Eels.
2 Firkins	make	1 Kilderkin
2 Kilderkins	make	1 Barrel.
42 Gallons	make	1 Tierce of Wine.
63 Gallons	make	1 Hogshead
2 Hogsheads	make	1 pipe, Butt.

Dry-Measure.

2 Gallons	make	1 Peck.
4 Pecks	make	1 Bushel land measure.
5 Pecks	make	1 Bushel wat. measure.
8 Bushels	make	1 Quarter.
4 Quarters	make	1 Chalder.
5 Quarters	make	1 Wey.

Long Measure.

3 Barly Corns	make	1 Inch.
12 Inches	make	1 foor.
3 feet	make	1 Yard.
3 feet 9 Inch.	make	1 Ell.
6 feet	make	1 fathom.
5 yards and ½	make	1 Pole.
40 Poles	make	1 furlong.
8 furlongs	make	1 *Eng.* mile.

Land Measure.

1 pole in breadth and 40 in length make a Rood of Land.

4 Roods make an Acre, which contains 160 square pole.

Cloath Measure.

4 Nails	make	1 Quarter.
4 Quarters	make	1 Yard.
5 Quarters	make	1 Ell.
3 Quarters	make	1 Ell *Flemish*

A Table shewing how many Inches in Length makes one Foot of Timber, according to the Compass of any Round Piece of Timber.

The Compass of the Tree in Inches.

Com.	In.	parts.	Com.	In.	parts	Com.	In.	parts
10	217	15	40	13	572	70	4	431
11	179	46	41	12	916	71	4	308
12	150	80	42	12	310	72	4	198
13	128	49	43	11	744	73	4	75
14	110	79	44	11	211	74	3	965
15	94	312	45	10	723	75	3	861
16	84	822	46	10	262	76	3	760
17	75	137	47	9	830	77	3	663
18	67	20	48	9	425	78	3	569
19	60	151	49	9	44	79	3	479
20	54	286	50	8	686	80	3	393
21	49	228	51	8	349	81	3	310
22	44	865	52	8	30	82	3	230
23	40	904	53	7	730	83	3	152
24	37	690	54	7	447	84	3	78
25	34	743	55	7	178	85	3	6
26	32	122	56	6	924	86	2	936
27	29	787	57	6	684	87	2	869
28	27	697	58	6	455	88	2	804
29	25	820	59	6	238	89	2	742
30	24	127	60	6	30	90	2	681
31	22	596	61	5	836	91	2	622
32	21	206	62	5	649	92	2	566
33	19	936	63	5	471	93	2	511
34	18	784	64	5	301	94	2	458
35	17	736	65	5	140	95	2	406
36	16	755	66	4	985	96	2	356
37	15	862	67	4	837	97	2	307
38	15	38	68	4	696	98	2	261
39	14	276	69	4	561	99	2	216
						100	2	171

The use of the Table.

First girt the Piece about, then look the length of that Girt under the title Com. and against it is the length of a Foot solid in Inches and parts of Inches.

Example.

Suppose a piece of Timber be 80 Inches about, then look 80 under the title Com. and against it in the next Column toward the right hand is 3 Inches and 393 decimal parts of an Inch, (that is 393 thousand parts, supposing the Inch to be divided into 1000 parts) for the length of a Foot.

For Square Timber.

Divide always 1728. (the Cubick inches in a foot solid) by the Content at the end, and the Quotient shews the length of a foot solid in Inches.

Example.

Let a piece of Timber be 12 Inches broad and 10 Inches deep at the end, and then the Content will be 120 Inches, which dividing 1728 the Quotient is 14 Inches, and $\frac{48}{120}$ parts for the length of a foot solid.

For Boards.

Divide always 144 (the Inches in a foot square) by the breadth, and the Quotient shews the length of a foot square in Inches.

Example.

If a board be 16 Inches broad, then 144 divided by 16 the Quotient is 9 Inches for the length of a foot according to that breadth.

For Circles.

If the Circumference be given, multiply it by it self, and then by 7, the last product divide by 88, and the Quotient shews the Content: if the Diameter be onely given, multiply it by it self, and then by 11 the last product divide by 14 and the Quotient shews the Content.

A Table of the hour and minute of Sun-rising every second day.

days	Januar. ho.	mi.	Februa. ho.	mi.	March ho.	mi.	April ho.	mi.	May ho.	m.	June ho.	mi.
2	8	4	7	15	6	16	5	14	4	21	3	46
4	8	1	7	11	6	12	5	10	4	17	3	45
6	7	58	7	7	6	8	5	6	4	14	3	44
8	7	56	7	3	6	4	5	2	4	11	3	43
10	7	53	6	57	6	0	4	58	4	7	3	43
12	7	51	6	53	5	56	4	54	4	5	3	43
14	7	48	6	50	5	52	4	50	4	2	2	43
16	7	45	6	46	5	48	4	46	4	0	3	44
18	7	43	6	42	5	44	4	43	3	58	3	45
20	7	40	6	38	5	40	4	39	3	56	3	46
22	7	37	6	34	5	36	4	35	3	54	3	47
24	7	33	6	30	5	32	4	32	3	52	3	48
26	7	29	6	26	5	29	4	29	3	50	3	49
28	7	25	6	22	5	25	4	25	3	48	3	50
30	7	21	0	0	5	21	4	22	3	47	3	52

days	July ho.	mi.	August ho.	mi.	Septem. ho.	mi.	Octob. ho.	mi.	Novē. ho.	m.	Decem ho.	mi.
2	3	54	4	39	5	39	6	41	7	37	8	15
4	3	56	4	43	5	42	6	45	7	40	8	15
6	3	58	4	46	5	46	6	49	7	44	8	16
8	4	0	4	50	5	50	6	52	7	47	8	17
10	4	3	4	54	5	54	6	56	7	51	8	17
12	4	6	4	58	5	58	7	0	7	54	8	17
14	4	8	5	2	6	2	7	4	7	57	8	17
16	4	11	5	6	6	6	7	8	7	59	8	16
18	4	15	5	10	6	11	7	12	8	1	8	15
20	4	18	5	14	6	15	7	15	8	3	8	15
22	4	21	5	18	6	20	7	19	8	5	8	14
24	4	24	5	21	6	24	7	22	8	7	8	11
26	4	27	5	25	6	28	7	25	8	9	8	10
28	4	30	5	29	6	32	7	29	8	11	8	9
30	4	34	5	32	6	36	7	32	8	13	8	7

Seek the day on the side; and right against it, in every moneth, you have the hour and minute of Sun-rising.

Look how many minutes the Sun rises after 3, 4, 5, 6, 7, 8.
So many he sets before 9, 8, 7, 6, 5, 4.

A Table of Annuities and Reversions.

What 1 pound to be paid any number of years hence, under 31, is worth in ready money.				What 1lb Annuity to continue any time under 31 years is worth in ready money at 6 *per cent.*				What 1 pound will amount to at any time under 21 years reckoning Interest upon Interest.			
	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	2	13	5	2	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	18	4	1	1	8	4	2
7	13	3	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	7	8	0	2	0	3	0
13	9	4	2	8	17	0	2	2	2	7	3
14	8	10	0	9	5	10	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	13	10	2
18	7	0	0	11	16	6	2	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	3	11	9	4	3	3	4	1	3
21	5	10	2	11	15	3	1	3	7	11	3
22	5	6	2	12	0	10	0				
23	5	2	3	12	6	0	3				
24	4	11	1	12	11	0	0				
25	4	7	2	12	15	8	0				
26	4	4	3	13	0	0	3				
27	4	1	3	13	4	2	2				
28	3	11	0	13	8	1	3				
29	3	9	1	13	11	9	2				
30	3	5	3	13	15	3	2				

By this Table you may readily find the increase of any other summ for such a number of years: for if 1 come to so much then such suppose 5lb will come to 5 times as much &c.

The

The use of the Tables.

THe first Table shewing the decrease of one Pound yearly at *6 per cent.* may be used in buying Reversions, *&c.* As suppose a parcel of Land or house or the like, whose fee simple or real worth is 200^{lb}, and it be Mortgaged or Leased out for 20 years, then what is the Reversion thereof after that 20 years worth in ready money? for answer, I look against 20 years and find that the Reversion of one pound after 20 years is worth but 6^{sh} 2^{d} 3^{q}, then if 1^{lb} be worth 6^{sh} 2^{d} 3^{q}, 200^{lb} will be worth 200 times as much, which will be 62^{lb} 5^{sh} 10^{d} for the value of the Reversion required.

The second Table may be used in buying of Leases, *&c.* as suppose I am to buy a Lease of 10^{lb} *per annum*, for 21 years, what ready money may I give at the rate of 6^{lb} *per cent. per ann.* for answer, I look against 21 years and find that 1^{lb} annuity to continue 21 years is worth in ready money 11^{lb} 15^{sh} 3^{d} 1^{q}, then I say if 1^{lb} annuity for 21 years be worth 11^{lb} 15^{sh} 3^{d} 1^{q}, then 10^{lb} annuity for the same time will be worth 10 times as much, which will be 117^{lb} 12^{sh} 8^{d} 2^{q}, for the value of the Lease required.

The third Table may be used in putting out money for a certain time at 6^{lb} *per cent. per ann.* as suppose 20^{lb} be let out for 7 years, what will it amount to in that time, reckoning Interest upon Interest? for Answer, I look against 7 years, and find that 1^{lb} will amount to in that time 1^{lb} 10^{sh} 0^{d} 3^{q}, then I say 20^{lb} will amount to 20 times as much, which will be 3[illegible]

The use of the following Table is plain and easie, for suppose I am to find *Easter* this present year 1690, then having found the Golden Number 19, and Dominical Letter E at the bottom of the Table, I look under the Dominical Letter E at the top, and right against the Golden Number 19 at the left hand, and in the Common angle of meeting I find *April* 20. for *Easter* Day.

A Table shewing how to find Easter for ever by the help of the Golden Number and Dominical Letter.

G.N	A	B	C	D	E	F	G
i	Apr. 9	10	11	12	6	7	8
ii	Mar. 26	27	28	29	30	31	apr. 1
iii	Apr. 16	17	18	19	20	14	15
iv	Apr. 9	3	4	5	6	7	8
v	Mar. 26	27	28	29	23	24	25
vi	Apr. 16	17	11	12	13	14	15
vii	Apr. 2	3	4	5	6	mar. 31	apr. 1
viii	Apr. 23	24	25	19	20	21	22
ix	Apr. 9	10	11	12	13	14	8
x	Apr. 2	3	mar. 28	29	30	31	apr. 1
xi	Apr. 16	17	18	19	20	21	22
xii	Apr. 9	10	11	5	6	7	8
xiii	Mar. 26	27	28	29	30	31	25
xiv	Apr. 16	17	18	19	13	14	15
xv	Apr. 2	3	4	5	6	7	8
xvi	Mar. 26	27	28	22	23	24	25
xvii	Apr. 16	20	11	12	13	14	15
xviii	Apr. 2	3	4	5	mar. 30	31	apr. 1
xix	Apr. 23	24	18	19	20	21	22

Yea. of our Lord	1684	1685	1686	1687	1688	1689	1690
G.N.	15	14	15	16	17	18	19
D.Le.	FE	D	C	B	AG	F	E

The

The Names of the principal Fairs in *England*, as they have heretofore been ſet forth by others, and are now Corrected and continued for the common good.

January.

The 5 day at Hicetford in Lancaſhire, the 6 day at Salisbury, Tueſday after at Melton-Mowbray, the Thurſday after at Banbury: the third Tueſday in January at Potton: the 25 at Graveſend, Briſtol, Churchinford, Northallerton in Yorkſhire every Wedneſday from Chriſtmas till June.

February.

The 1 day at Bromley in Lancaſhire, the 2 at Reading in Barkſhire, at Maidſton, Bickleſworth, Bicklesfield, Bath, Lyn, Bugworth: the 6 day at Stafford for 6 days: the 14 at Oundle, Feverſham: 24 at Henley upon Thames, Baldock: On Aſhwedneſday at Royſton, Dunſtable, Eaton, Tamworth, Tunbridg, Lichfield, Exeter, Cicester. The firſt Thurſday in Lent at Banbury: the 26 at Stanford an Horſe Fair.

March.

The 3 day at Bromel-brakes in Norfolk, 4 at Bedford, at Oakham: 12 at Alſome in Norfolk, Sudbury, Wooburn, Stanford, at Wye: 13 at Bodwin in Cornwall: 20 at Durham, Alesbury: Munday before our Lady day at Kendal, at Wisbich, 25 at Huntingron, Northampton, Malden, Aſhwel in Hartfordſhire, Newcaſtle, Oney, S. Albans: Midlent Saturday at Saffron-walden: Palmſunday-eve at Wisbich, Worceſter, Pomfret, on Goodfriday at Norwich, the Tueſday before Eaſter at Potton.

April.

Eaſter Munday at Oney in Bedfordſhire, Gainsborough, Eaſter Tueſday at Daintry in Northamptonſh. Godmanchester, Schole in Norfolk, S. Edmunds-bury. On Wedneſday at Wellingborough in Northamptonſh. On Friday

in the ſame week at Darby. On Saturday at Bickleſworth: a day at Hitchin, at Rochford, Northfleet: 5 at Wallingford: 7 at Derby, 9 at Billingſworth, Bickleſworth: the 22 at Stabford, 23 at Ipſwich, Harbin in Norfolk, Northampton, Sapſar in Hartfordſhire, Charing, Hinningham, Tamworth, Bury in Lancaſhire. St Pombs in Cornwal, Ampthill, Chicheſter, Engfield, Gilford, Biſhops-Hatfield: the 25 at Buckingham, at Bourn in Lincolnſ. at Colebrook. Dunmow in Eſſex, Darby, Oakham in Rutlandſhire: the 29 at Tenderden in Kent, Cleet. 30 at Beverly a week together.

May.

The 1 day at Swaffam, Haveril in Eſſex, Laytonbuzzard in Huntingtonſh. Rippon in Yorkſ. Reading, Maidſtone, Chelmford, Leiceſter, Litchfield, Lexfield in Suffolk, Stow, Stanſted, Tuxford in the Clay, the 2 day at Elſtow in Bedfordſh, Noneaton in Warwickſ. Thetford in Norfolk, Waltham Abby, Hinningham, Rochdale, Bramyard, the 6 at Almeſbury, at Aſhford, 7 at Newton in Lancaſhire, Beverly, Oxford. Bath: the 8 at Maidſtone: the 19 at Rocheſter, Dunſtable, Magfield in Suffolk. On Rogation Munday at Reach. On Aſcenſion day at Thaxted, Beverly, Rippon, Sudminſter, Biſhopſtratford, S. Neots, Wickham in Lancaſhire, Middle-wich in Cheſhire, Chappel-Frith in Darbiſh. On Whitſun-even at Skipton in Craven. On Whitſun-Munday at S. Ives, Rygate in Surry, Bickleſworth, Bradford, Agmunſham in Buckinghamſh. On Whitſun-Tueſday at Newmarket. On Wedneſday at Royſton. Thurſday at Owndle in Northamptonſ. 26 at Lenham, 29 at Crainbrook.

June.

Trinity-even at Rowel, Kendal. On Corpus Chriſti day at Banbury, Biſhopſtratford, S. Neots, Coventry, Newbury. The 3 at Alesbury: 9 at Maidſtone. 11 at Breme in Norfolk, Bardfield in Eſſex. 17 at Hadſtock, 23 at S. Albans, Deerham in Norfolk, Shrewsbury, 24 at Halſon in Suffolk, Barnwel by Cambridge, Bedford, Colcheſter, Hartford,

Hartford, Leiceſter, Rumford, Reading, Windſor, Halifax, York, Beverly, Haſlingden, 26 at Briſtol, Darby. 27 at Burton on Trent, Folſtone. 28 at S. Pombs in Cornw. 29 at Peterborough, Aſhwel, Sudbury, Stebbing in Eſſex. Benington in Hartfordſhire.

July.

The firſt Tueſday at Potton. The 1, 2, 3 days at Congleſtone in Cheſhire, 7 at Royſton, Burntwood. The Munday after at Fodringham, at Canterbury: the 11 at Partney, 17 at Stevenage: 20 at Uxbridge, Coolidge, Woodſtock: the 22 at Ickleton, Bickleſworth, Norwich, Colcheſter, Newark upon Trent; 25 at Audley-end by Walden, Reading, Baldock, Darby, Dover, Erith, Ipſwich, Stamford.

Auguſt.

The firſt day at Bedford, S. Neots, Dunſtable, Feverſham, Wisbich, Bickleſworth, Thaxted: the 6 at Peterborough: the 10 at Blackmore, Harply in Norfolk, S. Ives, Bedford, Banbury, Farnham, Brainford, Owndle: the 15 at Cambridge, Huntington, Dunmow, Luton, Northampton: the 24 at London, Sudbury, Norwich, Oxford, Northallerton, Dover, Beggers-buſh, Burton. the 28 at Aſhford, Daintry: the 29 at Halſon in Suffolk, Harlow-Buſh in Eſſex, Watford.

September.

The firſt day at S. Giles in the Buſh. On Thurſday and Friday before the 8 day at Sandback in Cheſhire. 7, 8, 9, 10 at Woodbury-hill in Dorſetſhire, 7 at Ware. 8 at Huntington, Bury in Lancaſhire, Partney, Wakefield, Northampton, Sturbridge fair begins: the 11 at Wolfpit in Suff. 14 at Rippon, Waltham-Abby, Cheſterfield in Darbiſhire, Richmond: the 21 at Marlborough, Bedford, Baldock, S. Edmundsbury, Holden in Holderneſs, Braintry, Brackly-Maiden, Malden, Mildnal: the 29 at S. Ives, Baſingſtoke, Marketdeeping, Shelford in Bedfordſh. Biſhopſtratford, Maldon, Stow in Lincolnſh. S. Albans, Canterbury, Leiceſter, Newbury, Weſtcheſter, Weymer for 7 days: Thurſday after at Banbury.

October.

October.

The 1 day at Salisbury, the 6 at Havent in Hampſh. Maidſtone, Coolidge, Gayworth by Lyn. S. Faiths by Norwich, the 8 at Biſhopſtratford, Harborough, 9 Gainsborough, the 13 at Windſor, Colcheſter, Graveſend, Hitchin, Royſton: the Tueſday before S. Luke at Potton: 18 at Ely, Biſhop Hatfield, Barnet, Banbury, Thirſk, Burton on Trent, Wellinborough: the 21 at Saffron Walden, Coventry: the 23 at Bicklelworth, 28 at Newmarket, Hartford, Oxford, Diſs, Wakefield, Stamford, Richdale in Lancaſhire.

November.

The 1 day at Chelmsford, 2 at Epping, Kingſton on Thames, Padamhaſſon in Suffolk, 6 at Newportpond, Bedford, Hartford, 11 at Lodden in Norfolk, Lenton in Nottinghamſhire, Hempton, Fockingham Bridgeſtock, Marlborough: the 17 at Spalding in Lincolnſh. Lincoln, Harlow, Hide, Northampton: the 19 at Horſham in Kent: the 20 at S. Edmundsbury, Ingerſton in Eſſex, Heath. the 23 at Sandwich, the 30 at Baldock, Bareford, Kolingborough, Maidenhead, Warrington, Rocheſter, Wakefield, York.

December.

The first day at Tutbury: the 5 at Pluckley: the 9 at S. Neots, at Woodſtock, Exeter, Spalding, Norwich in Cheſhire, Seven-oak in Kent, Arundel, Grantham: the 7 at Sandhurſt, the 8 at Northampton, Clitheral in Lancaſhire, Huntingdon, Leiceſter, at Malpas in Cheſhire: the 29 at Canterbury, Salisbury.

THere is lately publiſhed *Theſaurus Linguæ Sanctæ Reſeratus*, &c. being a Concordantial *Hebrew Lexicon*, or *Dictionary*; in which all the *Hebrew Lexicons* are ſuccinctly comprehended, and the whole *Hebrew Concordance* of every Word of the *Hebrew Bible* grammatically reſolved, &c.

A Full, Large, and General *Phraſe-Book*; Comprehending, whatſoever is Neceſſary, and moſt Uſefull, in all other *Phraſeologiſal-Books*, (hitherto, here, publiſhed;) and Methodically Digeſted; for the more ſpeedy and Proſperous Progreſs of Students in their Humanity Studies. Both Publiſhed by *William Robertſon*, A. M. and ſold at the Crane in St. *Pauls* Church-yard; LONDON.

FINIS.